October 22, 2003 - HRVOC Work Group Meeting 2 DEQ Conference Center Room C 111, 1:30-3:30

Safety Reminders

Introductions

Review Agenda

Review Work Group Objectives and Schedule Schedule 1 Develop a scope of services for a contract study to determine the role of HRVOC in the BR ozone problem and determine resources needed Dec-03 2 Prepare and issue contract

2 Oversee contract study

3 Evaluate results and recommend solutions

May-04 May-Nov 04 Dec-04

Organization

Complete core member list for Industry

Baton Rouge VOC Data Analysis Overview by Mark Sather of EPA R6

HRVOC Survey - Based on 2002 TRI

Completion of Brainstorming Session - Study Elements

Element Grouping and Formation of Sub-Groups

Discussion of Sub-Group Tasks

Choose Group Leader Develop action plan

Action Items

Wrap-up

Sub-Group Meetings (split meeting - 1 hr for SG and 1 for combined?) Next meeting date

Study Elements

Intense analysis of exceedances and near-exceedances (>110 ppb) in last 10 years

Adequacy of number and location of HRVOC monitors and meteorology stations

Accuracy of emission inventory reporting

Reporting of TRI emissions by point source or type

Use of portable analyzers for exceedance investigation/routine monitoring

Targeted modeling of HRVOC and spikes

Additional permit requirements needed

Improvement of the Ozone Action Day prediction system

Reporting on marine activities emissions

Upper air monitoring

Back-track trajectory procedures

Follow-up on RQ reports, corrective actions

Literature search

Historical trend for NOx (similar to non-methane VOC)

Breakdown of TRI between routine and non-routine

Look at past exceedances with other evaluation tools

5-minute met data

Closer look at what Houston did/what worked, what didn't

Met data from other sources

Other traffic - pipeline, rail, truck (on-loading, off-loading)

Upper level wind speed (UAM), low-tech solution with balloons

Forecasting/Early warning system for Industry, equipment to facilitate program/call home/data logger

Seasonal emissions/start-up/shutdown

Invite Texas member to join

Feasibility of open-path IR

Develop database to manage NOx, VOC, meteorology information

Design strategic monitoring plan for HRVOC for Summer 2004

Environmental management program audit (Motiva-Norco)

UAM modeling capability to test theories and possible solutions

HRVOC Workgroup Meeting Minutes October 22, 2003

Maurice Oubre welcomed the group at its second meeting.

Safety and administrative notes were reviewed

Introductions of all attendees (attendee list attached)

Review agenda for meeting

Reminder that the group will focus only on HRVOC Schedule: Scope of work for contract by December 2003 Recommendations by December 2004

Item 1. Core member list

DEQ has identified its members on the core group along with a representative from LEAN. LCA requested more time to identify core group members from industry. However LCA did have industry representatives for sub-group membership.

Members identified so far:

DEQ

Maurice Oubre
Jim Hazlett
Manop Vanichchagorn
Jennifer Walton
Jim Orgeron
Vivian Aucoin

Industry and Associations

Richard Metcalf - LMOGA Moriama Grinnell - ExxonMobil Pipeline Company Henry Graham - LCA

Others

Mike McDaniel
Gary Miller—LEAN
Maria Martinez—EPA Region 6
Mark Sather—EPA Region 6
Chad Scott—Marine Chemists of LA, LLC

Item 2. Explosive ozone formation comparison between Baton Rouge and Houston given by Mark Sather of EPA Region VI.

During the discussion after the presentation it was noted that the emissions data (TRI and EI) don't compare well to the ambient concentrations. The group discussed trying to determine who tests and who uses emission factors. Mark indicated that he would like to see an additional PAM site located in the area around Geismar. When asked why he pointed out that there is "lots of NOx". The Plaquemine and Pride sites indicate similar trends. The group asked for more analysis and Mark will continue with his analysis. The briefing will be posted on the DEQ public web page.

Item 3. HRVOC Survey

Facilities will have 60 days to complete the special inventory. The draft form was reviewed and instructions were explained. There was a question about how non TRI reporters were to speciate their VOCs. DEO will investigate. After some discussion it was decided to merge TRI and EI lists. SCC code was also an issue. DEQ was asked what they plan to do with the results of the survey. DEQ responded that the purpose of the survey was to try to determine where the bulk of the routine HVROC emissions occur and then DEQ could give some thought on controlling these emission sources. The workgroup believes that emissions could well be still under reported. For those facilities using emission factors, emissions are sometimes overestimated. DEQ might be driven to regulate a type of source that may not be the problem. Some discussion about data precision issues (rounding, significant digits) – may lose hundred of pounds. Questions concerning whether the form captures continuous versus episodic releases. DEQ will consider including a request for duration information. The workgroup believes that it is too much to ask for each individual episodic release. The group was advised to use the Texas study to start looking at cooling towers, flares, and fugitives. DEQ plans to mail the survey out Friday, October 24, 2003. It will be due December 23, 2003. What about NOx? DEQ already has data on electrical utilities. DEQ may do a separate survey on NOx. The group was interested on which facilities have already installed NOx RACT. What about Chlorine emissions? That is outside the scope of the HRVOC workgroup.

Item 4. Brainstorming (continued)

Lessons learned from Houston (UAM model and others lessons) (EPA offered to present their modeler's insight) Doug Deason will be invited to a future meeting to give an overview of the plan that was developed for Houston/Galveston.

Other models available? (CAMx, REACTx) The group's feelings were that all of the models are about the same and would give similar results. The reason that the ozone peaks are not showing up in the model runs could be the way that the emissions are input – mostly annual amounts divided into hours.

Chase baseline or peaks?

Item 5. Organizing subgroups

Next meeting: plan is to meet one hour in subgroups and then one hour as the whole group. The subgroups may have an interim DEQ leader until the subgroup meets. 3 rooms will be reserved.

Applies to all Subgroups: Need Leader and Co-leader and action plan

Subgroup 1. Exceedances/Data Analysis

Richard Metcalf

Jim Hazlett

Jim Orgeron

Gary Miller

Mark Sather

Brian Eastep

Quang Nguyen(EPA)

Michelle Eaglin

Dave Fellows

Mike McDaniel

Yousheng Zeng

Raymond Allen (Raymond Allen@urscorp.com)

Michael Hebert (Michael Hebert@urscorp.com)

Subgroup 2. Emission/Meteorology Monitoring

Manop Vanichchagorn

Mark Sather

Brian Eastep

Mike McDaniel

Chris Baldridge

Ron Crum

Subgroup 3. Emission Inventory

Moriama Grinnell

Jennifer Walton

Herb Sherrow (EPA)

Mike McDaniel

Chad Scott

Tom Micklas

George Jones

Bill Bailey (WMBailey@Dow.com)

Sharon Caughman

Mike Hannan

Brad Stahlecker

John Martinez

Cheryl Dawson

Action Items:

DEQ will investigate the survey of facilities who do not report the TRI

Next Meeting: Thursday, November 6, 2003, 1:30-3:30.